

# LAND APPLICATION OF BIOSOLIDS BARBARA TOGGER

PG40 (FIELDS 1 – 7) PRINCE GEORGE COUNTY, VIRGINIA APRIL 2013



May 10, 2013

Mr. Seth Mullins Dept. of Environmental Quality Piedmont Regional Office 4949-A Cox Road Glen Allen, VA 23060

Dear Mr. Mullins:

Transmitted herein for your consideration is land application site for Barbara Togger (designated as PG 40, fields 1-7) located in Prince George County, Virginia. This submission contains strictly site specific information. Please refer to the operations and maintenance manual submitted under separate cover for all non-site specific information.

Do not hesitate to contact me at (804) 443-2170 should you have any questions or require additional information.

Sincerely,

D. Steve McMahon

Sr. Technical Services Director

Stunucellah

/cmw



# FIELD SUMMARY SHEET

Barbara Togger PG40

SYNAGRO	GROSS	NET	FSA	FSA	ТОРО	
FIELD	ACRES	ACRES	TRACT	FIELD	QUAD	OWNER
#			#	#		
40-01	2.4	2.3	37	1	Prince George	Mark H & Carolyn T Yarosz
40-02	21.4	20.1	37	2-7	Prince George	Mark H & Carolyn T Yarosz
						Stepehen M & Denise Y Togger Barbara J Togger
40-03	4.6	4.3	37	8	Prince George	Barbara J Togger
40-04	2.9	2.9	37	9	Prince George	Barbara J Togger
40-05	6.8	5.4	37	9, 10	Prince George	Barbara J Togger
40-06	3.2	3.2	37	11	Prince George	Barbara J Togger
40-07	6.2	6.2	37	12	Prince George	Barbara J Togger
TOTALS:	47.5	44.4				

## VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND API	PLICATION AGREEMEN	T - BIOSOLIDS AND INI	DUSTRIAL RESIDUALS
A. This land application ag here as "Landowner", and terminated in writing by eitl event of a sale of one or m identified in this agreemen	reement is made on <u>12/6</u> <u>Synagro</u> , referred to here as her party or, with respect to to ore parcels, until ownership.	the "Permittee". This agree hose parcels that are retain of all parcels changes. If o	bana Togger referred to
Landowner: The Landowner is the own the agricultural, silvicultural attached as Exhibit A.	er of record of the real prope or reclamation sites identific	rty located in <u>Relivee Ga</u> ed below in Table 1 and ide	സ്ല, Virginia, which includes ntified on the tax map(s)
Table 1.: Parcels aut	horized to receive biosolids,	water treatment residuals	or other industrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
350 (OA) 00-17-0		1 dx 1 dicel ID	Tax Parcel ID
· ·			
☐ Additional parcels containing Land	Application Sites are identified on	Supplement A (check if applicable	e)
Check one:	e Landowner is the sole own	er of the properties identific	od harain
त्या ।।।	e Landowner is one of multip	le owners of the properties	identified herein.
Notify the purchase later than the date of the later than the later th	at uate of mosmins annication	on, the Landowner shall: ble public access and crop	management restrictions no
The Landowner has no other notify the Permittee immedia	er agreements for land applic	cation on the fields identified	d herein. The Landowner will
inspections on the land iden purpose of determining com	nts permission to the Permitte bove and in Exhibit A. The L tified above, before, during o pliance with regulatory requi	andowner also grants perr	nission for DEQ staff to conduct
Class B biosolids Water X Yes - □ No X Yes	treatment residuals Fo	ood processing waste (Yes ☐ No )	Other industrial sludges <a href="#">X Yes</a> □ No. · · · · · · · · · · · · · · · · · · ·
BARBARA TOGGERI	nuner Barbara I	A-01.	1 PRINCE GEORGE PI LTANTA, VA 23842
Landowner - Printed Name, Title	Signature	1111	ailing Address
Permittee:			
Synagro, the Permittee, agrees	to apply biosolids and/or indust	rial residuals on the Landown	er's land in the manner authorized
by the VPA Permit Regulation a each land application field by a			
The Permittee agrees to notify t specifically prior to any particula	he Landowner or the Landowner or application to the Landowner's	er's designee of the proposed s s land. Notice shall include th	schedule for land application and e source of residuals to be applied.
☐ I reviewed the document(s) a document(s) available to DEQ for	ssigning signatory authority to t	he nereon signing for landour	anahana 1 W 1 anahana
D. Steve McMar	row N. Sten	-millah	Champlain MAZZUZO
Permittee – Authorized Representa	ative Signature	Ma	illing Address

Rev 9/14/2012

Printed Name

## VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Synagro Landowner: BARBARA

## Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

#### 2. Public Access

- a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
- b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
- c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

#### 3. Crop Restrictions:

- a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
- b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
- c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
- . d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
  - e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

## 4. Livestock Access Restrictions:

Following biosolids application to pasture or hayland sites:

- Meat producing livestock shall not be grazed for 30 days,
- b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
- Other animals shall be restricted from grazing for 30 days;
- 5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;
- 6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Landowner's Signature

Page 2 of 2

# VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPL	ICATION AGREEMEN	T - BIOSOLIDS AND	INDUSTRIAL RESID	UALS
A. This land application agree here as "Landowner", and <u>Sy</u> terminated in writing by either event of a sale of one or more identified in this agreement of to receive biosolids or industr	r party or, with respect to the parcels, until ownership hanges, those parcels for	those parcels that are re of all parcels changes. which ownership has ch	tained by the Landown If ownership of individu	ner in the ual parcels
Landowner: The Landowner is the owner the agricultural, silvicultural o attached as Exhibit A.	of record of the real proper reclamation sites identifi	erty located in <i>Revice</i> ed below in Table 1 and	6eorgeVirginia, whi identified on the tax m	ch includes ap(s)
Table 1.: Parcels author	orized to receive biosolids	water treatment residua	als or other industrial s	ludges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Pa	arcel ID
350 (OA) 00-017-B				
		10 1 1 1 2 1 10 1	137 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
☐ Additional parcels containing Land /	Application Sites are identified or	n Supplement A (check if appl	icable)	
Check one:	Landowner is the sole ow	ner of the properties ide	ntified herein.	
	Landowner is one of multi	Taranta and the second of the		
later than the date of		ion, the Landowner shal able public access and o	ll: crop management rest	, . , ,
The Landowner has no other notify the Permittee immediat for application or any part of tincorrect.	ely if conditions change s	uch that the fields are no	o longer available to the	e Permittee
The Landowner hereby grant agricultural sites identified ab inspections on the land identipurpose of determining comp	ove and in Exhibit A. The fied above, before, during	Landowner also grants or after land application	permission for DEQ st of permitted residuals	aff to conduct
Class B biosolids X Yes - □ No X Yes		Food processing waste ⟨ Yes □ No	Other industrial slu X Yes ☐ No 9697 PRANCE	
STOPHEN MITECLE	course Sty	am Tosse	DISPUTALTA, V	la 23842
Landowner – Printed Name, Title  Denise Y. Togger  Permittee:	Signature	)	Mailing Address	
Synagro, the Permittee, agrees to by the VPA Permit Regulation are each land application field by a p	nd in amounts not to exceed	the rates identified in the n	utrient management plan	
The Permittee agrees to notify the specifically prior to any particular				
☐ I reviewed the document(s) as document(s) available to DEQ for				ke a copy of this
D. Steve Men	Perhod N	) and Malloth	- Champla	IN UA
Permittee – Authorized Representa Printed Name	ative Signature		Mailing Address	72438

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## VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

	County or City: PRINCE SEORGE COUNTY	
Permittee: Synagro	County or City: KING SEORGE COUNTY	_
Landowner: STEPHEN M.	1066 CR	

## Landowner Site Management Requirements:

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c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

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Sleph on Tay David 12-6-2017 L'andowner's Signature Date

Rev 9/14/2012

# VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND AP	PLICATION AGREEMENT	- BIOSOLIDS AND IN	IDUSTRIAL RESIDUALS
here as "Landowner", and terminated in writing by eit event of a sale of one or n identified in this agreemer	ther party or, with respect to the nore parcels, until ownership or	the "Permittee". This ag nose parcels that are reta of all parcels changes. If which ownership has cha	referred to reement remains in effect until it is ained by the Landowner in the ownership of individual parcels nged will no longer be authorized
Landowner: The Landowner is the owr the agricultural, silvicultural attached as Exhibit A.	ner of record of the real proper al or reclamation sites identifie	ty located in <i>Reince</i> of delow in Table 1 and in	Seorge, Virginia, which includes dentified on the tax map(s)
Table 1.: Parcels au	uthorized to receive biosolids,	water treatment residual	s or other industrial sludges
Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
350 (0A)00-01	74		
□ Additional parcels containing La	nd Application Sites are identified on	Supplement A (check if applic	able)
	he Landowner is the sole own he Landowner is one of multip		
within 38 months of the lat 1. Notify the purchas later than the date	test date of biosolids application	on, the Landowner shall: ble public access and cr	op management restrictions no
notify the Permittee imme		ch that the fields are no	fied herein. The Landowner will longer available to the Permittee nerein contained becomes
agricultural sites identified inspections on the land ide	ants permission to the Permitt above and in Exhibit A. The entified above, before, during of empliance with regulatory requ	Landowner also grants por after land application of	permission for DEQ staff to conduct of permitted residuals for the
Class B biosolids Wa X Yes □ No X Y		ood processing waste Yes ☐ No	Other industrial sludges X Yes □ No
Landowner - Printed Name, Ti Carolyn T. Yarosa Permittee:		Storay	Mailing Address DESPUTANTA, UA 23847
Synagro, the Permittee, agre by the VPA Permit Regulatio	es to apply biosolids and/or indus n and in amounts not to exceed the $\sigma$ a person certified in accordance	he rates identified in the nu	owner's land in the manner authorized trient management plan prepared for de of Virginia.
			sed schedule for land application and le the source of residuals to be applied.
	s) assigning signatory authority to Q for review upon request. (Do no		lowner above. I will make a copy of this per signs this agreement)  10647 Trolewater Trail  Champlain VA 22438
D. Steve Me,	Nahon		Champlain VAZZ438
Permittee – Authorized Repres	the state of the s		Mailing Address

Page 1 of 2

## VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Synagro County or City: PRINCE SEORGE COUNTY

Landowner: MARK YARDS 7

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Morda 21. Vaccor Carolyn J. Ymon 12-06-2012

Landowner's Signature Date

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Barbara J Togger PG40 Fields 1 - 7



**TAX MAP** 

Tax ID Landowner Identification Sheet

Landowner	Field #	Tax ID
Mark H & Carolyn T Yarosz	40-01	350(0A)00-017-C
Mark H & Carolyn T Yarosz Stepehen M & Denise Y Togger Barbara J Togger	40-02	350(0A)00-017-C 350(0A)00-017-B 350(0A)00-017-0
Barbara J Togger	40-03	350(0A)00-017-0
Barbara J Togger	40-04	350(0A)00-017-0
Barbara J Togger	40-05	350(0A)00-017-0
Barbara J Togger	40-06	350(0A)00-017-0
Barbara J Togger	40-07	350(0A)00-017-0

Field #	Latitude (north)	Longitude (west)
40-01	37 <sup>O</sup> 10' 46.07"	77 ° 16' 16.08"
40-02	37 <sup>O</sup> 10' 38.69"	77 ° 16' 15.15"
40-03	37 <sup>O</sup> 10' 36.52"	77 <sup>0</sup> 16' 04.86"
40-04	37 <sup>O</sup> 10' 28.57"	77 <sup>o</sup> 16' 12.92"
40-05	37 <sup>O</sup> 10' 29.65"	77 <sup>O</sup> 16' 07.98"
40-06	37 <sup>O</sup> 10' 28.04"	77 <sup>O</sup> 16' 03.64"
40-07	37 ° 10' 37.26"	77 <sup>o</sup> 15' 44.15"



Farm: 110

Tract: 37

Werders Externiories dereiter

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area.

Refer to your original dermination (CPA-026 and attached maps) for exact wetland

1 inch equals 440 feet



April 12, 2012

# **Environmentally Sensitive Areas**

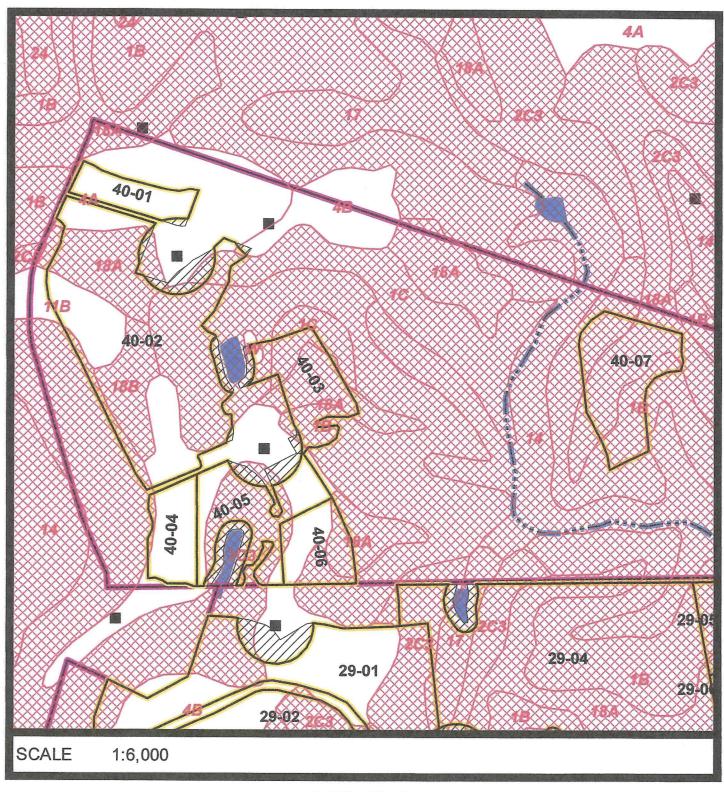
Field	Reason for Sensitive Area
40-01	None
40-02	High Water Table (Map Units 1B, 18A, 18B – 67%)
40-03	High Water Table (Map Units 1B, 1C, 18A – 100%)
40-04	High Water Table (Map Unit 2C3 – 6%)
40-05	High Water Table (Map Unit 2C3 – 58%)
40-06	High Water Table (Map Units 1B, 2C3, 18A – 56%)
40-07	High Water Table (Map Units 1B, 18A – 100%)

# Prince George County Soils that are Environmentally Sensitive

Soil Map Unit	Series Name	Time of year		Environmental	
-		<b>High Water</b>	Flooded		
1A, 1B, 1C	Ackwater	Nov - March	en de la compressión de la comercia		
2C3, 2D3	Ackwater	Nov - March			
3	Argent	Nov - April			
5	Bojac			Leaching	
6	Bolling	March - July	March - July		
7B, 7C	Bonneau		Programme Services	Leaching	
8A, 8B	Burrowsville	Dec - April			
9	Catpoint	Dec - April		Leaching	
10	Chickahominy	Nov – April		O	
14	Kinston	Nov – June	Nov - June		
15	Levy	Jan - Dec	Jan - Dec	Drainage	
16, 17	Lynchburg	Nov - April			
18A, 18B	Montross	Dec - April			
19	Muckalee	Nov - April	Nov – April	Drainage	
20	Newflat	Nov – April			
23A, 23B, 23C	Peawick	Nov - March			
24	Rains	Nov - April			
25A, 25B, 25C	Slagle	Nov - April			

# **SYNAGRO**

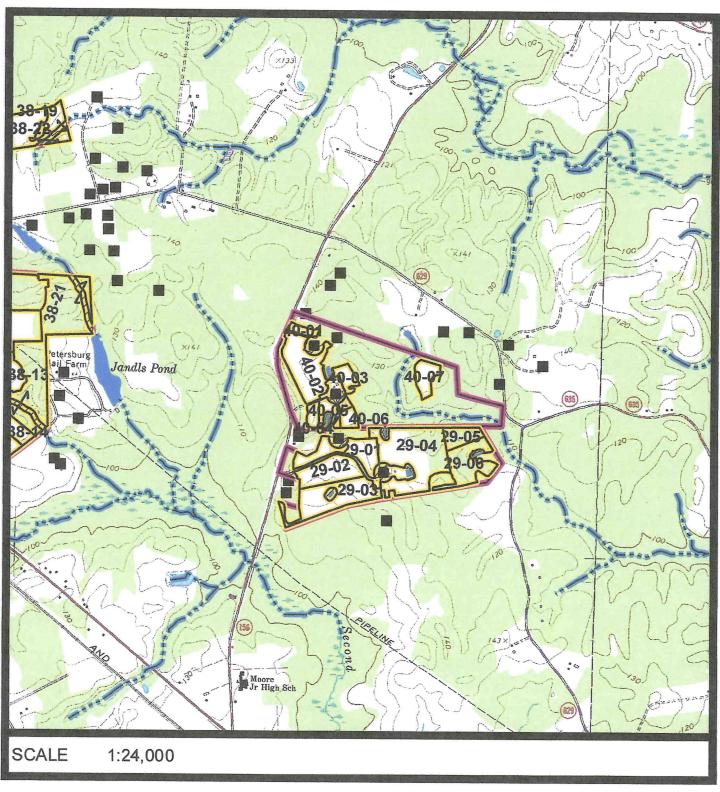
Barbara J Togger PG40 Fields 1 – 7



SOIL MAP

# **SYNAGRO**

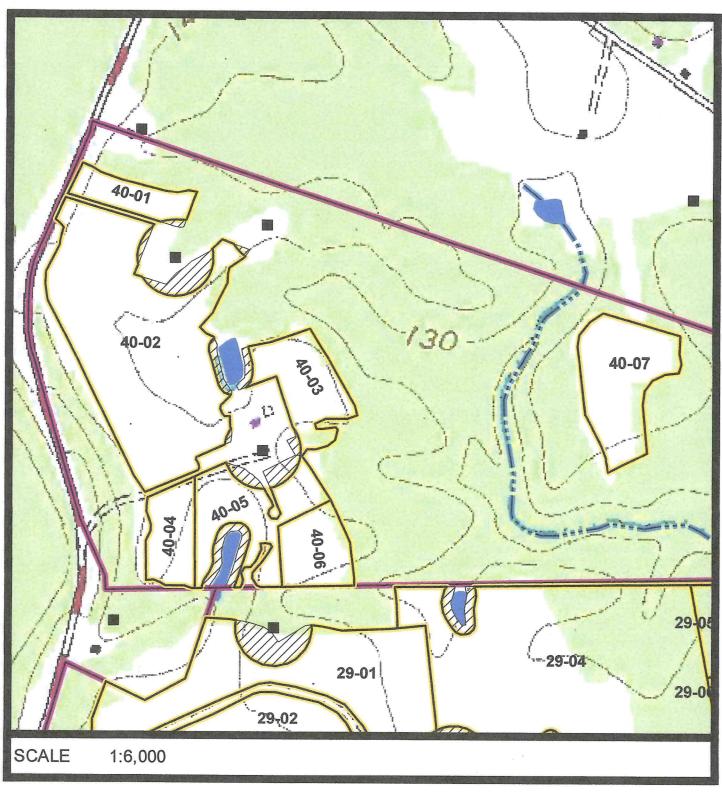
Barbara J Togger PG40 Fields 1 – 7



**TOPO MAP** 

# **SYNAGRO**

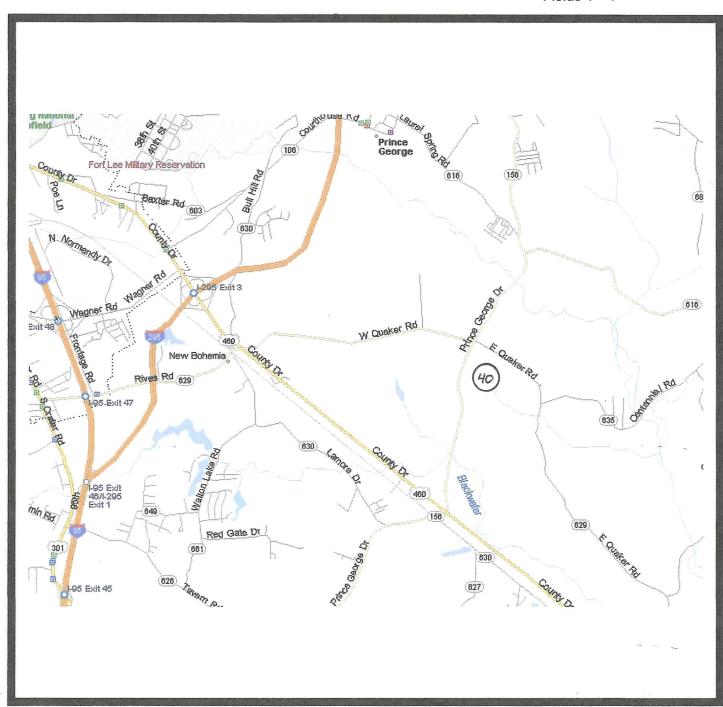
Barbara J Togger PG40 Fields 1 – 7



**TOPO MAP** 



Barbara Togger PG40 Fields 1 – 7



**LOCATION MAP**